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1. **Propagation of the nerve-impulse within a neuronal chain**
Miftakhov, R.N.; Mougalli, A.;
Neural Networks, 1995. Proceedings., IEEE International Conference on
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2. **On nonoscillation and monotonicity of solutions of nonnegative and compartmei systems**
Chellaboina, V.; Haddad, W.M.; Bailey, J.M.; Ramakrishnan, J.;
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Volume 51, Issue 3, March 2004 Page(s):408 - 414
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3. **On the absence of oscillations in compartmental dynamical systems**
Chellaboina, V.; Haddad, W.M.; Bailey, J.M.; Ramakrishnan, J.;
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Parker, R.S.; Doyle, F.J., III; Peppas, N.A.;
Biomedical Engineering, IEEE Transactions on
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2. **Population pharmacokinetic and dynamic models: parametric (P) and nonparam approaches**
Jelliffe, R.; Schumitzky, A.; Van Guilder, M.; Wang, X.; Leary, R.;
Computer-Based Medical Systems, 2001. CBMS 2001. Proceedings. 14th IEEE Symp 26-27 July 2001 Page(s):407 - 412
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3. **On the use of multivariable piecewise-linear models for predicting human respor**
Hui-Hing Lin; Beck, C.L.; Bloom, M.J.;
Biomedical Engineering, IEEE Transactions on
Volume 51, Issue 11, Nov. 2004 Page(s):1876 - 1887
AbstractPlus | References | Full Text: PDF(584 KB) IEEE JNL

4. **Pharmacokinetic-pharmacodynamic model for educational simulations**
van Meurs, W.L.; Nikkelen, E.; Good, M.L.;
Biomedical Engineering, IEEE Transactions on
Volume 45, Issue 5, May 1998 Page(s):582 - 590
AbstractPlus | References | Full Text: PDF(224 KB) IEEE JNL

5. **Modeling and closed-loop control of hypnosis by means of bispectral index (BIS)**
Gentilini, A.; Rossoni-Gerosa, M.; Frei, C.W.; Wymann, R.; Morari, M.; Zbinden, A.M.;
Biomedical Engineering, IEEE Transactions on
Volume 48, Issue 8, Aug. 2001 Page(s):874 - 889
AbstractPlus | References | Full Text: PDF(308 KB) IEEE JNL

6. **A pharmacokinetic model to study administration of intravenous anaesthetic age**
Shuenn-Tsong Young; Kuang-Ning Hsiao;
Engineering in Medicine and Biology Magazine, IEEE
Volume 13, Issue 2, April-May 1994 Page(s):263 - 268
AbstractPlus | Full Text: PDF(868 KB) IEEE JNL

7. **Applying Models of Targeted Drug Delivery to Gene Delivery**
Tai Ning Lam; Hunt, C.A.;
Engineering in Medicine and Biology Society, 2004. EMBC 2004. Conference Proceedi
International Conference of the
Volume 2, 2004 Page(s):3535 - 3538
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8. **On the use of hybrid multivariable models for predicting human response to ane**
Hui-Hung Lin; Beck, C.; Bloom, M.; Chudoung, J.;
Decision and Control, 2002, Proceedings of the 41st IEEE Conference on
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9. **Structure of optimal controls for a cancer chemotherapy model with PK/PD**
Ledzewicz, U.; Schattler, H.;
Decision and Control, 2004. CDC. 43rd IEEE Conference on
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Hui-Hung Lin; Beck, C.; Nedumgottil, J.; Bloom, M.;
Decision and Control, 2001. Proceedings of the 40th IEEE Conference on
Volume 1, 4-7 Dec. 2001 Page(s):867 - 868 vol.1
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11. **A new paradigm for the closed-loop intraoperative administration of analgesics i**
Gentilini, A.; Schaniel, C.; Morari, M.; Bieniok, C.; Wymann, R.; Schnider, T.;
Biomedical Engineering, IEEE Transactions on
Volume 49, Issue 4, April 2002 Page(s):289 - 299
AbstractPlus | References | Full Text: PDF(397 KB) IEEE JNL

12. **Bayesian estimation in pharmacokinetics/pharmicodynamics using regenerative methods**
Dongwoo Kang; D'Argenio, D.Z.;
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Biomedical Engineering Soc.] BMES/EMBS Conference, 1999. Proceedings of the Firs
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13. **Mechanistically-based pharmacodynamics: molecular response to geldanamycir human tumor xenographs**
Lu Xu; Eiseman, J.L.; Egorin, M.J.; D'Argenio, D.;
[Engineering in Medicine and Biology, 2002. 24th Annual Conference and the Annual F
Biomedical Engineering Society] EMBS/BMES Conference, 2002. Proceedings of the
Volume 1, 2002 Page(s):511 - 512 vol.1
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14. **An MILP approach to cancer chemotherapy dose regime design**
Harrold, J.M.; Parker, R.S.;
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Volume 1, 30 June-2 July 2004 Page(s):969 - 974 vol.1
AbstractPlus | Full Text: PDF(722 KB) IEEE CNF

15. **Population pharmacokinetic/dynamic (PK/PD) modeling via the World Wide Web**
Botnen, A.; Wang, X.; Jelliffe, R.; Thomas, M.; Hoem, N.;
Computer-Based Medical Systems, 2001. CBMS 2001. Proceedings. 14th IEEE Sympo
26-27 July 2001 Page(s):163 - 168

AbstractPlus | Full Text: PDF(304 KB) IEEE CNF

16. **An adaptive grid non-parametric approach to pharmacokinetic and dynamic (PK/ models**
Leary, R.; Jelliffe, R.; Schumitzky, A.; Van Guilder, M.;
Computer-Based Medical Systems, 2001. CBMS 2001. Proceedings. 14th IEEE Symp
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1. **Pharmacokinetic-pharmacodynamic model for educational simulations**
van Meurs, W.L.; Nikkelen, E.; Good, M.L.;
Biomedical Engineering, IEEE Transactions on
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Meyer Katzper

December 1995 **Proceedings of the 27th conference on Winter simulation**

Full text available: pdf(647.66 KB) Additional Information: full citation, references, index terms

2 Asthma dynamics and medical amelioration

Meyer Katzper

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available: pdf(424.85 KB) Additional Information: full citation, references, index terms

3 Pharmacokinetic modeling: an approach to risk assessment

Philip E. Robinson, Cheryl S. Scott, David W. Yesair, Paul I. Feder, Steven J. Naber

December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available: pdf(697.17 KB) Additional Information: full citation, abstract, references

The United States Environmental Protection Agency (EPA) is sponsoring research on the development of Pharmacokinetic Models to support the Agency's Exposure and Risk Assessment processes. A prototype model, formulated for the chemical hexachlorobenzene (HCB), has been developed to describe this chemical's absorption, distribution, and elimination in humans and animal species. These processes are described by systems of simultaneous coupled first order differential equations. The model provi ...

4 Session 5: less is more: Information security is information risk management

Bob Blakley, Ellen McDermott, Dan Geer

September 2001 **Proceedings of the 2001 workshop on New security paradigms**

Full text available: pdf(756.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Information security is important in proportion to an organization's dependence on information technology. When an organization's information is exposed to risk, the use of information security technology is obviously appropriate. Current information security technology, however, deals with only a small fraction of the problem of information risk. In fact, the evidence increasingly suggests that information security technology does not

reduce information risk very effectively.This paper argues t ...

5 Bioinformatics: Labrat LIMS: an extensible framework for developing laboratory information management, analysis, and bioinformatics solutions for microarrays
Marcus R. Breese, Matthew J. Stephens, Jeanette N. McClintick, Matthew W. Grows, Howard J. Edenberg
March 2003 **Proceedings of the 2003 ACM symposium on Applied computing**
Full text available: pdf(804.89 KB) Additional Information: full citation, abstract, references

The biotechnology industry has long recognized the need for robust methods for tracking samples and data; however, it is only with the recent widespread adoption of genomic scale experiments that smaller academic facilities have also begun to appreciate the value of laboratory information management systems (LIMS) for use in tracking samples through the many procedures involved, including automated data collection and analysis. We have designed an extensible LIMS database backend collectively ca ...

Keywords: LIMS, bioinformatics, database, expression analysis, microarray

6 Modeling disease processes for drug development: bridging the gap between quantitative and heuristic models
Pamela K. Fink, L. Tandy Herren
November 1996 **Proceedings of the 28th conference on Winter simulation**
Full text available: pdf(850.28 KB) Additional Information: full citation, references

7 Joint use of simulation and nonlinear curve fitting in compartmental models (abstract)
Meyer Katzper
January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**
Full text available: pdf(104.10 KB) Additional Information: full citation, abstract, index terms

Simulation and nonlinear fitting programs allow a greater role for human experience and judgement when used jointly in obtaining the best ranges and fit for the parameters of compartmental models. Currently available software provides graphical interfaces which make a viewing and intervention strategy attractive and efficient. This is especially the case in nonlinear models where required initial estimates can lead to false solution due to local minima. Simulations can be used which provide ...

8 Health care: Healthcare process analysis: redesigning the medication ordering, dispensing, and administration process in an acute care academic health sciences centre
Cathy Wong, Glen Geiger, Yaron D. Derman, Carolyn R. Busby, Michael W. Carter
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(502.47 KB) Additional Information: full citation, abstract, references

Two simulation models have been built to quantify the advantages of an electronic medication ordering, dispensing and administration process compared with the current manual process at an acute care academic health sciences centre. The first model represents the current manual system, and has been validated against observed data. The second model represents the proposed electronic medication ordering, dispensing and administration system. The results show that there is a potential to signific ...

9 Molecular imaging and biomedical process modeling

David Dagan Feng
January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29**
Full text available: pdf(159.73 KB) Additional Information: full citation, abstract, references

This paper describes the core theories and enabling technologies developed for molecular imaging at the BMIT Group and the CMSP Center over the last 10 years, in the areas of dynamic image data acquisition, compression, storage, management, modeling, simulation, analysis, processing, registration, and visualization.

10 Algorithm 717; subroutines for maximum likelihood and quasi-likelihood estimation of parameters in nonlinear regression models
David S. Bunch, David M. Gay, Roy E. Welsch
March 1993 **ACM Transactions on Mathematical Software (TOMS)**, Volume 19 Issue 1
Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

We present FORTRAN 77 subroutines that solve statistical parameter estimation problems for general nonlinear models, e.g., nonlinear least-squares, maximum likelihood, maximum quasi-likelihood, generalized nonlinear least-squares, and some robust fitting problems. The accompanying test examples include members of the generalized linear model family, extensions using nonlinear predictors ("nonlinear GLIM"), and probabilistic choice models, such as linear-in-parameter multinomial ...

11 FITTEN - an APL workspace for nonlinear regression
Lutz Edler, Jutta Berger
July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1
Full text available: pdf(482.94 KB) Additional Information: full citation, abstract, references, citings, index terms

Based on the problems experimentally working scientists have if they want to fit theoretical curves or models (e.g. Bateman curves of compartment models in pharmacokinetics) to data which are nonlinear and can not be treated by usual regression techniques, we developed an interactive APL program called FITTEN in order to carry out nonlinear regressions. Emphasis has been placed on easy practicability, also for users with minor computing experience. Batch processing for high and interactive ...

12 SIGSAM BULLETIN: Computer algebra in the life sciences
Michael P. Barnett
December 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 4
Full text available: pdf(240.15 KB) Additional Information: full citation, abstract, references

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

13 Getting started in simulation in healthcare
Julie C. Lowery
December 1998 **Proceedings of the 30th conference on Winter simulation**
Full text available: pdf(49.89 KB) Additional Information: full citation, references, citings, index terms

14 Interactive 3D visualization of actual anatomy and simulated chemical time-course data

for fish
P. Rheingans, M. Marietta, J. Nichols
October 1995 **Proceedings of the 6th conference on Visualization '95**

Full text available: pdf(702.50 KB) Publisher Site Additional Information: full citation, abstract

Outputs from a physiologically based toxicokinetic (PB-TK) model for fish were visualized by mapping time series data for specific tissues onto a three dimensional representation of a rainbow trout. The trout representation was generated in stepwise fashion: cross sectional images were obtained from an anesthetized fish using a magnetic resonance imaging (MRI) system; images were processed to classify tissue types; images were stacked and processed to create a three dimensional representation of ...

Keywords: actual anatomy, anesthetized fish, biology computing, biomedical NMR, chemical concentration, chemistry computing, continuous branchial exposure, cross sectional images, data visualisation, gastrointestinal tract, image representation, interactive 3D visualization, interactive systems, kinetic data, magnetic resonance imaging, pentachloroethane, physiologically based toxicokinetic model, rainbow trout, simulated chemical time-course data, three dimensional representation, time series data, tissue volumes, zoology

15 The traveling-salesman problem (abstract)
Susan N. Twohig, Samuel O. Aletan
January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**

Full text available: pdf(104.10 KB) Additional Information: full citation, abstract, index terms

The traveling-salesman problem is one of the classical NP-Complete problems. No current algorithms are available which can solve these problems in polynomial time, that is, the number of steps grows as a polynomial according to the size of the input. The traveling-salesman problem involves a salesman who must make a tour of a number of cities using the shortest path available. For each number of cities n, the number of paths which must be explored is n!, causing this problem to grow exponen ...

16 Improving human haptic performance in normal and impaired human populations through unattended activation-based learning
Hubert R. Dinse, Tobias Kalisch, Patrick Ragert, Burkhard Pleger, Peter Schwenkreis, Martin Tegenthoff
April 2005 **ACM Transactions on Applied Perception (TAP)**, Volume 2 Issue 2

Full text available: pdf(15.56 MB) Additional Information: full citation, abstract, references, index terms

Human haptic performance is not fixed, but subject to major alterations through learning processes. We describe a new stimulation protocol that allows to improve haptic performance in humans in a highly systemic way through unattended activation-based learning. The so-called coactivation protocol is based upon temporal constraints of Hebbian learning where simultaneity plays a key role for the induction of plastic changes. We provide an overview about the potential of coactivation by summarizing ...

Keywords: Learning, aging, cognition, cortical reorganization, learn-ware, plasticity, therapy

17 Posters: A 3D image smoothing method for dynamic functional imaging
Weidong Cai, Dagan Feng, Roger Fulton
December 2000 **Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2**

Full text available: pdf(291.29 KB) Additional Information: full citation, abstract, references, index terms

Dynamic functional imaging has been limited by the finite spatial resolution and high noise. Various smoothing methods have been proposed to reduce noise from functional image. However, these smoothing methods are usually based on the spatial domain and local statistical properties. Smoothing algorithms specifically designed for dynamic functional image data have not previously been investigated in detail. We present a new 3D smoothing method that aim to diminish the noise and improve the qualit ...

Keywords: image processing, medical imaging, smoothing

18 Use of a software package for diverse user-developed applications

Forest E. Morrison, June A. Page, Cynthia B. Irby

June 1981 **Proceedings of the eighteenth annual computer personnel research conference**

Full text available: pdf(670.10 KB) Additional Information: full citation, abstract, citings, index terms

In recent years the technological advances in computer hardware have raced far ahead of the development of software. Computer manufacturers, software firms, government and private industry have all been caught in the dilemma of having the latest in data processing equipment, but lacking the trained personnel to achieve the maximum benefit from this equipment. Low priced mini and micro-computer systems started and are continuing to fuel the rush to decentralization. We see less of the centra ...

19 3d hard copy: Shape-based retrieval and analysis of 3d models

Thomas Funkhouser, Michael Kazhdan, Patrick Min, Philip Shilane

June 2005 **Communications of the ACM**, Volume 48 Issue 6

Full text available: pdf(3.15 MB) html(30.38 KB) Additional Information: full citation, abstract, references, index terms

The number of 3D geometric models available in online repositories is growing dramatically. Examples include: the Protein Data Bank [1], which stores the 3D atomic coordinates for 29,000 protein molecules; the National Design Repository [9], which stores 3D computer-aided design (CAD) models for tens of thousands of mechanical parts; and the Princeton Shape Database [5], which stores polygonal surface models for 36,000 everyday objects crawled from the Web. Since graphics hardware is getting fas ...

20 Topology control & mobility: Stationary distributions of random walk mobility models for wireless ad hoc networks

Michael McGuire

May 2005 **Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing**

Full text available: pdf(198.59 KB) Additional Information: full citation, abstract, references, index terms

To properly use a mobility model to evaluate a wireless network policy via computer simulations it is necessary to know the statistics of mobile terminal locations for the model. Unfortunately, these statistics are only known for a limited number of mobility models which limits the analysis of wireless networks that can be done using computer simulations. This paper presents a method for calculating an approximation of the steady-state distribution of mobile terminal locations for a general clas ...

Keywords: mobility models, steady-state distributions, wireless ad hoc networks

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Title
Xpose-an S-PLUS based population **pharmacokinetic/pharmacodynamic** model building aid for NONMEM.

Author(s)
Jonsson-E-N; Karlsson-M-O.

Author affiliation
Dept of Pharmacy, Uppsala Univ, Sweden.

Source
Computer-Methods-and-Programs-in-Biomedicine (Ireland), vol.58, no.1, p.51-64, Jan. 1999. , Published: Elsevier.

CODEN
CMPBEK.

ISSN
ISSN: 0169-2607, CCCC: 0169-2607/99/ ($20.00).

Availability
SICI: 0169-2607(199901)58:1L.51:XPBP; 1-Q
Electronic Journal Document Number: S0169-2607(98)00067-4.

Publication year
1999.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
P Practical.

Abstract
The building of population **pharmacokinetic/pharmacodynamic** (PK/PD) models is a time-consuming and complicated task. This is partly due the lack of specialized tools for the data visualization and exploration requirements of this type of analysis. In this paper, we present Xpose, a model-building aid for population PK/PD analysis using the NONMEM population analysis program, which simplifies the task of producing documentation, data-set checkout plots, goodness-of-fit plots and graphical model comparisons. It also facilitates covariate model-building by the use of stepwise

generalized additive **modeling** (GAM), bootstraps of the GAM analyses and tree-based modelling. The plots and analyses are presented in the form of a text-based menu system, and the only thing the user has to do is to make NONMEM produce one or more table files named in a specific way. Xpose is written in the S-language, as implemented in the statistical modelling package S-PLUS. (14 refs).

Descriptors

data-visualisation; digital-simulation; medical-computing; physiological-models; statistical-analysis.

Keywords

Xpose; S PLUS statistical modelling package; model building aid; population pharmacokinetics; population pharmacodynamics; NONMEM population analysis program; data visualization; data exploration requirements; documentation; data set checkout plots; goodness of fit plots; graphical model comparison; covariate model building; stepwise generalized additive **modeling;** bootstrapping; tree based modelling; text based menu system; table files; S language.

Classification codes

C7330 (Biology and medical computing).
C6130B (Graphics techniques).
C1140Z (Other topics in statistics).

Document

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☑ **document 14 of 19** Order Document

INSPEC - 1969 to date (INZZ)

Accession number & update
5785512, C9802-1290L-004; 971216.

Title
Uncertain **pharmacokinetic/pharmacodynamic** systems: design, estimation and control.

Author(s)
D-Argenio-D-Z; Kyungsoo-Park.

Author affiliation
Dept of Biomed Eng, Univ of Southern California, Los Angeles, CA, USA.

Source
Control-Engineering-Practice (UK), vol.5, no.12, p.1707-16, Dec. 1997. , Published: Elsevier.

CODEN
COEPEL.

ISSN
ISSN: 0967-0661, CCCC: 0967-0661/97/ ($17.00+0.00).

Availability
SICI: 0967-0661(199712)5:12L.1707:UPPS; 1-K.

Publication year
1997.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
T Theoretical or Mathematical; X Experimental.

Abstract
In the study of many biological systems, measurement of some process variables occurs only infrequently and at irregular intervals relative to system time constants, while others are completely unobservable. The quantitative study of such sparse data systems (common in the fields of biochemistry, endocrinology, immunology, metabolism, pharmacology, pharmaceutical sciences, toxicology, and other areas), requires **modeling** methodologies developed expressly to handle the challenges of **modeling** and data analysis under the constraints of limited data. This presentation reviews current methods for design, estimation and control of sparse data systems, focusing on methods that formally incorporate important sources of uncertainty (both biological and experimental) into the **modeling** and analysis processes. The methods are illustrated using examples from

pharmacokinetics and pharmacodynamics. (33 refs).

Descriptors

biocontrol; design-of-experiments; dynamics; maximum-likelihood-estimation; medicine; physiological-models; stochastic-systems; uncertain-systems.

Keywords

uncertain systems; pharmacokinetics; pharmacodynamics; biological systems; experiment design; parameter estimation; stochastic control; drug development; sparse data systems.

Classification codes

C1290L (Systems theory applications in biology and medicine).
C1220 (Simulation, modelling and identification).
C1340G (Time-varying control systems).
C1140Z (Other topics in statistics).

Copyright statement

Copyright 1997, IEE.

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☑ **document 15 of 19** Order Document

INSPEC - 1969 to date (INZZ)

Accession number & update
5671159, C9710-7330-062; 970820.

Title
Modeling with Nonlin.

Author(s)
Weiner-D-L; Ed. by Anderson-J-G; Katzper-M.

Author affiliation
Syntex Dev Res, CA, USA.

Source
Proceedings of Simulation in the Health Sciences, Tempe, AZ, USA, 24-26 Jan. 1994. In: p.90, 1994.

Publication year
1994.

Language
EN.

Publication type
CPP Conference Paper.

Treatment codes
P Practical; R Product Review.

Abstract
Nonlin was completely rewritten in 1985, incorporating numerous significant enhancements, and has continued to undergo periodic revisions since then. Versions are currently available for MS-DOS based computers (PCNonlin), DEC Vax (Vax Nonlin), and mainframes (Portable Nonlin). These new versions are powerful, yet easy to use. The Nonlin family is capable of simulating and fitting general nonlinear models, which can be expressed in closed form or as a system of differential equations. Most commonly employed **pharmacokinetic** and **pharmacodynamic** models can be specified by simply specifying an appropriate model number. Nonlin also provides estimates and standard errors of commonly used functions of **pharmacokinetic** model parameters, such as half lives and residence times. PCNonlin has a powerful graphics module which makes it particularly useful for **pharmacokinetic** simulations. A PC-Windows version and a library of **pharmacokinetic /pharmacodynamic** link models are currently under development. (0 refs) .

Descriptors
digital-simulation; medical-computing; software-reviews.

Keywords
Nonlin; MS DOS; PCNonlin; DEC Vax; Vax Nonlin; mainframes; Portable Nonlin; general nonlinear models; differential equations; **pharmacokinetic** models; **pharmacodynamic** models; half lives;

residence times; graphics module; **pharmacokinetic** simulations; PC Windows; **pharmacokinetic pharmacodynamic** link models.

Classification codes

C7330 (Biology and medical computing).
C6185 (Simulation techniques).

Copyright statement

Copyright 1997, IEE.

Document

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☑ **document 17 of 19** Order Document

INSPEC - 1969 to date (INZZ)

Accession number & update
3489526, C89069137; 890000.

Title
BOOMER, a simulation and **modeling** program for **pharmacokinetic** and **pharmacodynamic** data analysis.

Author(s)
Bourne-D-W-A.

Author affiliation
Coll of Pharmacy, Oklahoma Univ, Health Sci Center, Oklahoma City, OK, USA.

Source
Computer-Methods-and-Programs-in-Biomedicine (Netherlands), vol.29, no.3, p.191-5, July 1989.

CODEN
CMPBEK.

ISSN
ISSN: 0169-2607, CCCC: 0169-2607/89/ ($03.50).

Publication year
1989.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
P Practical.

Abstract
BOOMER is an improved version of an earlier nonlinear regression program, MULTI-FORTE by D.W.A. Bourne (1986). Rather than the user writing a FORTRAN subroutine, models are defined by means of the parameters which make up the model. Models based on differential equations are specified by means of zero-order, first-order, or Michaelis-Menten-type rate constants. Doses (in units of mass) are translated into the usually observed concentration units by a reciprocal volume parameter. Integrated equation models are specified in terms of baseline terms, exponential terms, or the emax function with slope term as described by the Hill equation. Time points can be specified as parameters to specify dose times, infusion start/stop times, or lag times. With careful selection of parameters quite complex models can be specified. The user has a choice of differential equation solvers and fitting algorithms. (8 refs).

Descriptors

data-analysis; differential-equations; digital-simulation; medical-computing; microcomputer-applications; programming.

Keywords

pharmacokinetic data analysis; BOOMER; simulation program; time points; integrated equation models; **modeling** program; **pharmacodynamic** data analysis; nonlinear regression program; zero order; first order; Michaelis Menten type rate constants; concentration units; reciprocal volume parameter; baseline terms; exponential terms; emax function; slope term; Hill equation; dose times; infusion startstop times; lag times; differential equation solvers.

Classification codes

C7330 (Biology and medicine).
C6130 (Data handling techniques).
C6110 (Systems analysis and programming).

Document

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☑ **document 18 of 19** Order Document

INSPEC - 1969 to date (INZZ)

Accession number & update
2765846, C86054672; 860000.

Title
Pharmacokinetics/pharmacodynamics: measures, models, and manipulations.

Author(s)
Colburn-W-A; Ed. by Whiteside-R-A.

Author affiliation
Drug Metabolism Dept, Warner-Lambert/Parke-Davis Pharmaceutical Res, Ann Arbor, MI, USA.

Source
Simulation at the Frontiers of Science with Papers on Software and Hardware Systems for the Simulationist. Proceedings from the Eastern Simulation Conferences, Norfolk, VA, USA, 10-12 March 1986, p.7-11.
Published: SCS, San Diego, CA, USA, 1986, vii+163 pp
Translation of: A02.

ISSN
ISBN: 0-911801-09-X.

Publication year
1986.

Language
EN.

Publication type
CPP Conference Paper.

Treatment codes
P Practical.

Abstract
Pharmacokinetic/pharmacodynamic (PK/PD) **modeling** has become extremely popular over the past few years. Its popularity, however, has lead to widespread acceptance and usage without a great deal of understanding of the models or the experimental data that are required to adequately justify their use. A review of the current **modeling** techniques, experimental designs and data evaluation methods are presented along with examples of more physiologically and pharmacologically reasonable alternatives, when applicable. Methods for developing and evaluating the model, including comparison of observed effects as a function of rate and route of administration as well as single dose and multiple dose cascades are presented. In addition, it was shown that good estimates of the PK and PD profiles are necessary to make good use of PK/PD **modeling** techniques and that these goals are achievable only with adequate experimental study designs. The conclusions drawn from this presentation are that PK/PD **modeling** is in its infancy and that the models and the applicability of the parameters they

provide will need to evolve over the next few years to yield experimentally and, more important, clinically useful information. Simulation and curve-fitting techniques along with model development will be instrumental in this evolution. (17 refs).

Descriptors

medicine; physiological-models.

Keywords

pharmacokinetic modeling; pharmacodynamic modeling; data evaluation methods; PKPD **modeling.**

Classification codes

C1290L (Biology and medicine).

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Tuesday, June 21, 2005

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
☐	L5	L3 and (pharmacokinetic? near pharmacodynamic?)	35
☐	L4	L3 and (connect$ near5 object?)	2
☐	L3	L1 and objects and equation?	54
☐	L2	L1 and dunlavey.in.	0
☐	L1	model$ and pharmacokinetic? and pharmacodynamic?	1162

END OF SEARCH HISTORY

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6287848 B1

L4: Entry 1 of 2 File: USPT Sep 11, 2001

US-PAT-NO: 6287848
DOCUMENT-IDENTIFIER: US 6287848 B1

TITLE: Dosage modeling system

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamzeh; Fayez M.	Baltimore	MD		
Lietman; Paul S.	Baltimore	MD		

US-CL-CURRENT: 435/286.7; 435/289.1, 435/297.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 2. Document ID: US 5962317 A

L4: Entry 2 of 2 File: USPT Oct 5, 1999

US-PAT-NO: 5962317
DOCUMENT-IDENTIFIER: US 5962317 A

TITLE: Dosage modeling system

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamzeh; Fayez M.	Baltimore	MD		
Lietman; Paul S.	Baltimore	MD		

US-CL-CURRENT: 435/325

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 20 of 35 returned.

☐ 1. Document ID: US 20050112680 A1

L5: Entry 1 of 35 File: PGPB May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112680
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050112680 A1

TITLE: Gene sequence variances in genes related to folate metabolism having utility in determining the treatment of disease

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanton, Vincent P. JR.	Belmont	MA	US	

US-CL-CURRENT: 435/6; 530/350, 536/24.3, 536/25.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050112627 A1

L5: Entry 2 of 35 File: PGPB May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112627
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050112627 A1

TITLE: Methods for optimizing clinical responsiveness to methotrexate therapy using metabolite profiling and pharmacogenetics

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dervieux, Thierry	San Diego	CA	US	
Walsh, Michael	San Diego	CA	US	

US-CL-CURRENT: 435/6; 514/251

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050069936 A1

L5: Entry 3 of 35 File: PGPB Mar 31, 2005

PGPUB-DOCUMENT-NUMBER: 20050069936
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050069936 A1

TITLE: Diagnostic markers of depression treatment and methods of use thereof

PUBLICATION-DATE: March 31, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Diamond, Cornelius	San Diego	CA	US	
Bremer, Troy	San Diego	CA	US	

US-CL-CURRENT: 435/6; 514/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20040171056 A1

L5: Entry 4 of 35 File: PGPB Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171056
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040171056 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanton, Vincent P. JR.	Belmont	MA	US	

US-CL-CURRENT: 435/6; 530/350, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20040115183 A1

L5: Entry 5 of 35 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040115183
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040115183 A1

TITLE: Site-specific in situ generation of allicin using a targeted alliinase delivery system for the treatment of cancers, tumors, infectious diseases and other allicin-senstive diseases

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rabinkov, Aharon	Rehovot		IL	
Miron, Talia	Kfar Haim		IL	
Mirelman, David	Ramat Efal		IL	
Wilchek, Meir	Rehovot		IL	

US-CL-CURRENT: 424/94.4; 424/178.1, 435/188.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 20040082000 A1

L5: Entry 6 of 35 File: PGPB Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082000
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040082000 A1

TITLE: Identification of genetic components of drug response

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanton, Vincent P. JR.	Belmont	MA	US	

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 20040009510 A1

L5: Entry 7 of 35 File: PGPB Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009510
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040009510 A1

TITLE: Allosteric nucleic acid sensor molecules

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seiwert, Scott	Pacifica	CA	US	
Vaish, Narendra	Denver	CO	US	
Zinnen, Shawn	Denver	CO	US	
Jadhav, Vasant	Boulder	CO	US	
Kossen, Karl	Westminster	CO	US	

US-CL-CURRENT: 435/6; 435/199, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 8. Document ID: US 20040006035 A1

L5: Entry 8 of 35 File: PGPB Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040006035
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040006035 A1

TITLE: Nucleic acid mediated disruption of HIV fusogenic peptide interactions

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Macejak, Dennis	Arvada	CO	US	
Blatt, Lawrence	San Francisco	CA	US	
McSwiggen, James	Boulder	CO	US	

US-CL-CURRENT: 514/44; 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 9. Document ID: US 20030198666 A1

L5: Entry 9 of 35 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198666
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030198666 A1

TITLE: Oral insulin therapy

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Abbas, Richat	Mohegan Lake	NY	US	
Goldberg, Michael M.	Tarrytown	NJ	US	

Woods, T. Cooper	New York	NY	US
Dinh, Steven	Tarrytown	NY	US
Arbit, Ehud	Tarrytown	NJ	US

US-CL-CURRENT: 424/452; 424/465, 514/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 10. Document ID: US 20030166301 A1

L5: Entry 10 of 35 File: PGPB Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166301
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166301 A1

TITLE: Multiple binding moiety chromatography device, methods of using and methods of making same

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wainer, Irving W.	Washington	DC	US	
Moaddel, Ruin	Germantown	MD	US	
Cloix, Jean-Francois	Mereville	DC	FR	
Ertem, Gozen	Washington		US	

US-CL-CURRENT: 436/518

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 11. Document ID: US 20030152515 A1

L5: Entry 11 of 35 File: PGPB Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152515
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030152515 A1

TITLE: Method for estimating effective regimens and patient survival rates of antibiotic treatments for fatal infectious diseases

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Ren-Jin	Gaithersburg	MD	US	

US-CL-CURRENT: 424/9.2; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 12. Document ID: US 20030113371 A1

L5: Entry 12 of 35 File: PGPB Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113371
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030113371 A1

TITLE: Composition and method for maintaining blood glucose level by employing the hydrophilic matrix based oral controlled release antidiabetic composition

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dhawan, Sanju	Chandigarh	IN	US	
Singla, Anil Kumar	Chandigarh		IN	

US-CL-CURRENT: 424/468; 514/369

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 13. Document ID: US 20030088320 A1

L5: Entry 13 of 35 File: PGPB May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088320
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088320 A1

TITLE: Unsupervised machine learning-based mathematical model selection

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sale, Mark Edward	Raleigh	NC	US	

US-CL-CURRENT: 700/30; 700/29

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 14. Document ID: US 20030082141 A1

L5: Entry 14 of 35 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082141

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030082141 A1

TITLE: COX-2 function and wound healing

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Connor, J. Patrick	Fanwood	NJ	US	

US-CL-CURRENT: 424/93.2; 424/45, 424/450, 435/235.1, 435/320.1, 435/456

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 15. Document ID: US 20030078760 A1

L5: Entry 15 of 35 File: PGPB Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030078760
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030078760 A1

TITLE: Population pharmacokinetic modeling and analysis (PDx-POP.TM.)

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bachman, William J.	Rockville	MD	US	
Bigora, Sian F.	Gambrills	MD	US	
Gastonguay, Marc R.	Simsbury	CT	US	
Young, David	Ellicott City	MD	US	

US-CL-CURRENT: 703/11; 600/300, 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 16. Document ID: US 20030045858 A1

L5: Entry 16 of 35 File: PGPB Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045858
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030045858 A1

TITLE: System and method for adaptive drug delivery

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Struys, Michel	Belsele		BE	
De Smet, Tom	Temse		BE	
Versichelen, Linda	Afsnee		BE	

US-CL-CURRENT: 604/503

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 17. Document ID: US 20030036744 A1

L5: Entry 17 of 35 File: PGPB Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036744
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030036744 A1

TITLE: System and method for adaptive drug delivery

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Struys, Michel	Belsele		BE	
De Smet, Tom	Temse		BE	
Versichelen, Linda	Afsnee		BE	

US-CL-CURRENT: 604/503

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 18. Document ID: US 20020012921 A1

L5: Entry 18 of 35 File: PGPB Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012921
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020012921 A1

TITLE: Identification of genetic components of drug response

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanton, Vincent P. JR.	Belmont	MA	US	

US-CL-CURRENT: 435/6; 435/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 19. Document ID: US 20010034023 A1

L5: Entry 19 of 35 File: PGPB Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034023 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanton, Vincent P. JR.	Belmont	MA	US	
Zillmann, Martin	Shrewsbury	MA	US	

US-CL-CURRENT: 435/6; 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 20. Document ID: US 6759200 B1

L5: Entry 20 of 35 File: USPT Jul 6, 2004

US-PAT-NO: 6759200
DOCUMENT-IDENTIFIER: US 6759200 B1

TITLE: Thymidine phosphorylase gene sequence variances having utility in determining the treatment of disease

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton, Jr.; Vincent P.	Belmont	MA		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 436/501, 536/22.1, 536/23.1, 536/24.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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Search Results - Record(s) 21 through 35 of 35 returned.

☐ 21. Document ID: US 6703045 B2

L5: Entry 21 of 35 File: USPT Mar 9, 2004

US-PAT-NO: 6703045
DOCUMENT-IDENTIFIER: US 6703045 B2

TITLE: Composition and method for maintaining blood glucose level

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dhawan; Sanju	Chandigarh			IN
Singla; Anil Kumar	Chandigarh			IN

US-CL-CURRENT: 424/464; 424/451, 424/452, 424/457, 424/465, 424/468, 424/484, 424/486, 424/488, 514/772, 514/772.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 22. Document ID: US 6673908 B1

L5: Entry 22 of 35 File: USPT Jan 6, 2004

US-PAT-NO: 6673908
DOCUMENT-IDENTIFIER: US 6673908 B1

TITLE: Tumor necrosis factor receptor 2

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton, Jr.; Vincent P.	Belmont	MA		

US-CL-CURRENT: 536/22.1; 435/6, 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 23. Document ID: US 6664062 B1

L5: Entry 23 of 35 File: USPT Dec 16, 2003

US-PAT-NO: 6664062
DOCUMENT-IDENTIFIER: US 6664062 B1

TITLE: Thymidylate synthase gene sequence variances having utility in determining the treatment of disease

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton, Jr.; Vincent P.	Belmont	MA		

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 536/23.1, 536/24.31, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 24. Document ID: US 6647358 B2

L5: Entry 24 of 35 File: USPT Nov 11, 2003

US-PAT-NO: 6647358
DOCUMENT-IDENTIFIER: US 6647358 B2

TITLE: Pharmacokinetic-based drug design tool and method

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grass; George M.	Tahoe City	CA		
Leesman; Glen D.	Hamilton	MT		
Norris; Daniel A.	San Diego	CA		
Sinko; Patrick J.	Lebanon	NJ		
Wehrli; John E.	Mountain View	CA		

US-CL-CURRENT: 703/2; 702/19, 703/11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 25. Document ID: US 6631291 B2

L5: Entry 25 of 35 File: USPT Oct 7, 2003

US-PAT-NO: 6631291
DOCUMENT-IDENTIFIER: US 6631291 B2

TITLE: Closed loop drug administration method and apparatus using EEG complexity for control purposes

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Viertio-Oja; Hanna	Espoo			FI
Cohen-Laroque; Emmanuel-S	Archamps			FR

US-CL-CURRENT: 600/544

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 26. Document ID: US 6605072 B2

L5: Entry 26 of 35 File: USPT Aug 12, 2003

US-PAT-NO: 6605072
DOCUMENT-IDENTIFIER: US 6605072 B2

TITLE: System and method for adaptive drug delivery

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Struys; Michel	Belsele			BE
De Smet; Tom	Temse			BE
Versichelen; Linda	Afsnee			BE

US-CL-CURRENT: 604/503

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 27. Document ID: US 6599281 B1

L5: Entry 27 of 35 File: USPT Jul 29, 2003

US-PAT-NO: 6599281
DOCUMENT-IDENTIFIER: US 6599281 B1

TITLE: System and method for adaptive drug delivery

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Struys; Michel	Belsele			BE
De Smet; Tom	Temse			BE

Versichelen; Linda Afsnee BE

US-CL-CURRENT: 604/503

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 28. Document ID: US 6542858 B1

L5: Entry 28 of 35 File: USPT Apr 1, 2003

US-PAT-NO: 6542858
DOCUMENT-IDENTIFIER: US 6542858 B1

TITLE: Pharmacokinetic-based drug design tool and method

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grass; George M.	Tahoe City	CA		
Leesman; Glen D.	Hamilton	MT		
Norris; Daniel A.	San Diego	CA		
Sinko; Patrick J.	Lebanon	NJ		
Wehrli; John E.	Mountain View	CA		

US-CL-CURRENT: 703/2; 702/19, 703/11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 29. Document ID: US 6537759 B1

L5: Entry 29 of 35 File: USPT Mar 25, 2003

US-PAT-NO: 6537759
DOCUMENT-IDENTIFIER: US 6537759 B1

TITLE: Folylpolyglutamate synthetase gene sequence variances having utility in determining the treatment of disease

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton, Jr.; Vincent P.	Belmont	MA		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 514/100, 536/22.1, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 30. Document ID: US 6503906 B1

L5: Entry 30 of 35 File: USPT Jan 7, 2003

US-PAT-NO: 6503906
DOCUMENT-IDENTIFIER: US 6503906 B1

TITLE: Method for optimizing ciprofloxacin treatment of anthrax-exposed patients according to the patient's characteristics

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Ren-Jin	Gaithersburg	MD	20878	

US-CL-CURRENT: 514/253.05; 514/253.07, 514/253.08, 514/885

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 31. Document ID: US 6287848 B1

L5: Entry 31 of 35 File: USPT Sep 11, 2001

US-PAT-NO: 6287848
DOCUMENT-IDENTIFIER: US 6287848 B1

TITLE: Dosage modeling system

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamzeh; Fayez M.	Baltimore	MD		
Lietman; Paul S.	Baltimore	MD		

US-CL-CURRENT: 435/286.7; 435/289.1, 435/297.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 32. Document ID: US 6108635 A

L5: Entry 32 of 35 File: USPT Aug 22, 2000

US-PAT-NO: 6108635
DOCUMENT-IDENTIFIER: US 6108635 A

TITLE: Integrated disease information system

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Herren; L. Tandy	San Antonio	TX		
Fink; Pamela K.	San Antonio	TX		
Kornman; Kenneth S.	San Antonio	TX		
Moehle; Christopher J.	San Antonio	TX		
Moore; Debra J.	Cincinnati	OH		

US-CL-CURRENT: 705/2; 600/300, 705/3, 705/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 33. Document ID: US 5962317 A

L5: Entry 33 of 35 File: USPT Oct 5, 1999

US-PAT-NO: 5962317
DOCUMENT-IDENTIFIER: US 5962317 A

TITLE: Dosage modeling system

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamzeh; Fayez M.	Baltimore	MD		
Lietman; Paul S.	Baltimore	MD		

US-CL-CURRENT: 435/325

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 34. Document ID: US 5906747 A

L5: Entry 34 of 35 File: USPT May 25, 1999

US-PAT-NO: 5906747
DOCUMENT-IDENTIFIER: US 5906747 A

TITLE: Separation of molecules from dilute solutions using composite chromatography media having high dynamic sorptive capacity at high flow rates

DATE-ISSUED: May 25, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coffman; Jonathan L.	Marlborough	MA		
Girot; Pierre	Paris			FR
Boschetti; Egisto	Croissy sur Seine			FR

US-CL-CURRENT: 210/635; 210/198.2, 210/656, 530/413, 530/417

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 35. Document ID: US 5229131 A

L5: Entry 35 of 35 File: USPT Jul 20, 1993

US-PAT-NO: 5229131
DOCUMENT-IDENTIFIER: US 5229131 A

TITLE: Pulsatile drug delivery system

DATE-ISSUED: July 20, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amidon; Gordon L.	Ann Arbor	MI		
Leesman; Glen D.	Ann Arbor	MI		

US-CL-CURRENT: 424/451; 424/464, 424/473, 424/480

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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Term	Documents
PHARMACOKINETIC?	0
PHARMACOKINETICE	1
PHARMACOKINETICS	11810
PHARMACODYNAMIC?	0
PHARMACODYNAMICS	2561
((PHARMACODYNAMIC? NEAR PHARMACOKINETIC?) AND 3).PGPB,USPT.	35
(L3 AND (PHARMACOKINETIC? NEAR PHARMACODYNAMIC?)).PGPB,USPT.	35

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